

PCT REQUEST

Original (for SUBMISSION)

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.169)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Korean Intellectual Property Office (RO/KR)
0-7	Applicant's or agent's file reference	PCTA9502-92
I	Title of Invention	GAMMA-BUTYROBETAIN HYDROXYLASE ORIGINATED FROM NEUROSPORA CRASSA
II	Applicant	
II-1	This person is	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	CJ Corporation
II-5	Address	500, Namdaemunno 5-ga, Jung-gu, Seoul100-802 Republic of Korea
II-6	State of nationality	KR
II-7	State of residence	KR
II-8	Telephone No.	82-2-726-8287
II-9	Facsimile No.	82-2-6740-1023
II-10	e-mail	coolguy0526@cj.net

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III-1	Applicant and/or inventor	
III-1-1	This person is	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	CHUNG, Sung Oh
III-1-5	Address	#402-405, Saetbyeol Sambu Apt., Bundang-dong, Bundang-gu, Seongnam-si, Gyeonggi-do463-749 Republic of Korea
III-1-6	State of nationality	KR
III-1-7	State of residence	KR
III-2	Applicant and/or inventor	
III-2-1	This person is	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	LEE, Bheong-Uk
III-2-5	Address	#149-1, Colleage of Health Sciences, Kosin Univ., Dongsam-dong, Yeongdo-gu, Busan606-701 Republic of Korea
III-2-6	State of nationality	KR
III-2-7	State of residence	KR
III-3	Applicant and/or inventor	
III-3-1	This person is	applicant and inventor
III-3-2	Applicant for	US only
III-3-4	Name (LAST, First)	KANG, Whan-Koo
III-3-5	Address	#210-1503, Expo Apt., Jeonmin-dong, Yuseong-gu, Daejeon305-761 Republic of Korea
III-3-6	State of nationality	KR
III-3-7	State of residence	KR
III-4	Applicant and/or inventor	
III-4-1	This person is	applicant and inventor
III-4-2	Applicant for	US only
III-4-4	Name (LAST, First)	JU, Jae Yeong
III-4-5	Address	#104-401, Mujigaemaeul Daelim Apt., Gumi-dong, Bundang-gu, Seongnam-si, Gyeonggi-do463-703 Republic of Korea
III-4-6	State of nationality	KR
III-4-7	State of residence	KR

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III-5	Applicant and/or Inventor	
III-5-1	This person is	applicant and inventor
III-5-2	Applicant for	US only
III-5-4	Name (LAST, First)	KOH, Eun Sung
III-5-5	Address	#302, Yangcheon Yeonlip, Woncheon-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do443-380 Republic of Korea
III-5-6	State of nationality	KR
III-5-7	State of residence	KR
III-6	Applicant and/or Inventor	
III-6-1	This person is	applicant and inventor
III-6-2	Applicant for	US only
III-6-4	Name (LAST, First)	PARK, Sung-Sik
III-6-5	Address	#101-701, Mokryun Town, Irwon-dong, Gangnam-gu, Seoul135-230 Republic of Korea
III-6-6	State of nationality	KR
III-6-7	State of residence	KR
III-7	Applicant and/or Inventor	
III-7-1	This person is	applicant and inventor
III-7-2	Applicant for	US only
III-7-4	Name (LAST, First)	PAKR, Young Hoon
III-7-5	Address	#111-102, Mujigaemaeul Daelim Apt., Gumi-dong, Bundang-gu, Seongnam-si, Gyeonggi-do463-703 Republic of Korea
III-7-6	State of nationality	KR
III-7-7	State of residence	KR

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IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent SON, Min
IV-1-1	Name (LAST, First)	
IV-1-2	Address	19th Floor, City Air Tower 159-9, Samseong-dong, Gangnam-gu, Seoul135-973
IV-1-3	Telephone No.	Republic of Korea 82-2-2016-7900
IV-1-4	Facsimile No.	82-2-2016-7905
IV-1-5	e-mail	minson@hanollawip.com
V	DESIGNATIONS	
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	
V-2	Item V-2 may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. As to the consequences of such national law provisions in these and certain other States, see Designations in PCT-SAFE Help.	KR
VI-1	Priority claim of earlier national application	
VI-1-1	Filing date	26 February 2004 (26.02.2004)
VI-1-2	Number	10-2004-0013032
VI-1-3	Country	KR
VII-1	International Searching Authority Chosen	Korean Intellectual Property Office (ISA/KR)

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VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	6	✓
IX-2	Description (excluding sequence listing part)	12	-
IX-3	Claims	1	-
IX-4	Abstract	1	✓
IX-5	Drawings	3	-
IX-7a	Sub-total number of sheets	23	
IX-6a	Sequence listing part of description	5	-
IX-7	TOTAL	28	
IX-8	Accompanying Items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	✓	
IX-11	Copy of general power of attorney	reference no. PCTA9502-92	-
IX-15	Separate indications concerning deposited microorganism or other biological material	✓	-
IX-16(A)	Sequence listing in computer readable form		
IX-16(A)- (ii)	additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter	-	1 Diskette
IX-17	PCT-SAFE physical media	-	✓
IX-19	Figure of the drawings which should accompany the abstract	1	
IX-20	Language of filing of the international application	Korean	

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X-1	Signature of applicant, agent or common representative	
X-1-1	Name (LAST, First)	SON, Min
X-1-2	Name of signatory	
X-1-3	Capacity	

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10-1	Date of actual receipt of the purported International application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported International application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/KR
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
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PCT (ANNEX - FEE CALCULATION SHEET)

Original (for SUBMISSION)

(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only		
0-1	International Application No.		
0-2	Date stamp of the receiving Office		
0-4	Form PCT/RO/101 (Annex) PCT Fee Calculation Sheet		
0-4-1	Prepared Using PCT-SAFE [EASY mode] Version 3.50 (Build 0002.169)		
0-9	Applicant's or agent's file reference PCTA9502-92		
2	Applicant CJ CORPORATION		
12	Calculation of prescribed fees		
12-1	Transmittal fee	T	fee amount/multiplier ⇒ 45000
12-2-1	Search fee	S	⇒ 225000
12-2-2	International search to be carried out by	KR	
12-3	International filing fee (first 30 sheets)	I1	1329000
12-4	Remaining sheets	0	
12-5	Additional amount	00	
12-6	Total additional amount	I2	0
12-7	i1 + i2 =	I	1329000
12-12	EASY Filing reduction	R	-95000
12-13	Total International filing fee (i-R)	I	⇒ 1234000
12-14	Fee for priority document		
	Number of priority documents requested	0	
12-15	Fee per document (X)	0	
12-16	Total priority document fee:	P	⇒
12-17	TOTAL FEES PAYABLE (T+S+I+P)		1504000
12-19	Mode of payment	cash	

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Original (for SUBMISSION)

0-1	Form PCT/RO/134 (SAFE) Indications Relating to Deposited Microorganism(s) or Other Biological Material (PCT Rule 13bis)	
0-1-1	Prepared Using	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.169)
0-2	International Application No.	
0-3	Applicant's or agent's file reference	PCTA9502-92

1	The indications made below relate to the deposited microorganism(s) or other biological material referred to in the description on:	
1-1	page	6
1-2	line	12-15
1-3	Identification of deposit	
1-3-1	Name of depositary institution	KCCM Korean Culture Center of Microor- ganisms
1-3-2	Address of depositary institution	361-221, Yurim B/D, Honje 1, Sudaemun, Seoul, 120-091, Republic of Korea
1-3-3	Date of deposit	27 January 2004 (27.01.2004)
1-3-4	Accession Number	KCCM 10557
1-5	Designated States for Which indications are Made	all designations

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0-4	This form was received with the international application: (yes or no)	
0-4-1	Authorized officer	

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0-5	This form was received by the international Bureau on:	
0-5-1	Authorized officer	

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13-2-1	Validation messages Request	Green? A translation of the int'l application into (one of) the following language(s) must be furnished within one month of the date of receipt by the receiving Office: English
	Validation messages Request	Green? A translation of the international application into English will have to be prepared under the responsibility of the ISA selected.
	Validation messages Request	Green? Please note that the entire request (including the title of invention) must be in English.
13-2-2	Validation messages States	Green? Please note that the following States have NOT been designated: KR.
13-2-3	Validation messages Names	Green? Applicant 1: Name should preferably be entered in capital letters. Please verify.
13-2-7	Validation messages Contents	Green? Priority 1. The priority document is not enclosed. (The applicant must furnish it within 16 months from the earliest priority date claimed)
13-2-8	Validation messages Fees	Green? Please confirm that fee schedule utilized is the latest available

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본 발명은 뉴로스포라 크라사(Neurospora crassa) 기원의 감마부티로베타인
하이드록실라제 (γ -Butyrobetaine hydroxylase: γ -BBH)를 코딩하는 폴리뉴클레오파이드,
상기한 폴리뉴클레오파이드를 포함하는 재조합 벡터, 상기한 재조합 벡터로 형질전환된
형질전환체, 상기한 폴리뉴클레오파이드에 의해 코딩되는 감마부티로베타인
하이드록실라제, 및 감마부티로베타인을 상기한 폴리뉴클레오파이드에 의해 코딩되는
감마부티로베타인 하이드록실라제로 하이드록실화하여 L-카르니틴(L-Carnitine)을
제조하는 방법에 관한 것이다.

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